

LONGXING

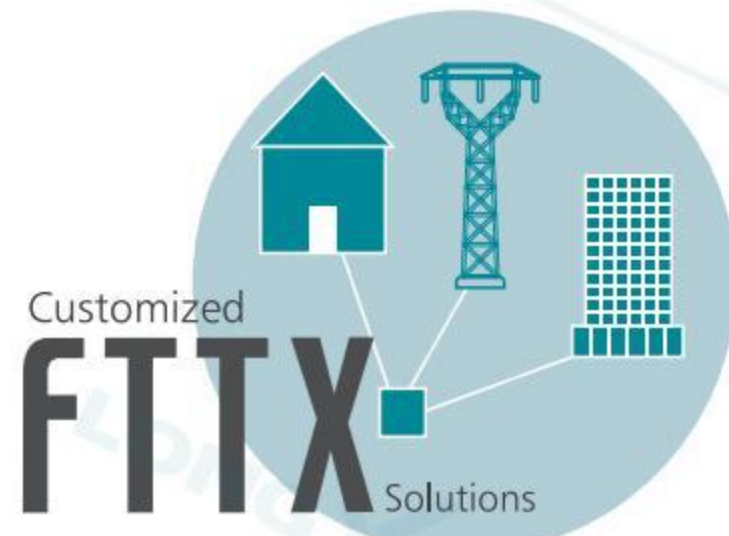
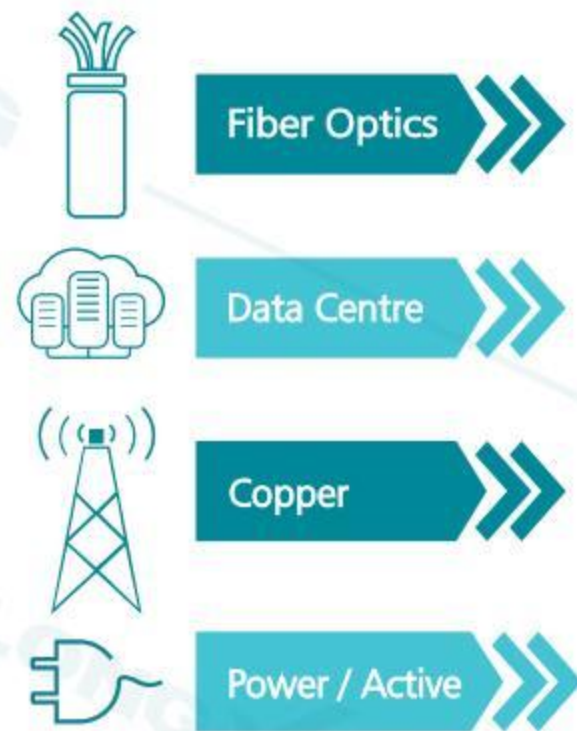
- WDM & Splitters
- Accessories



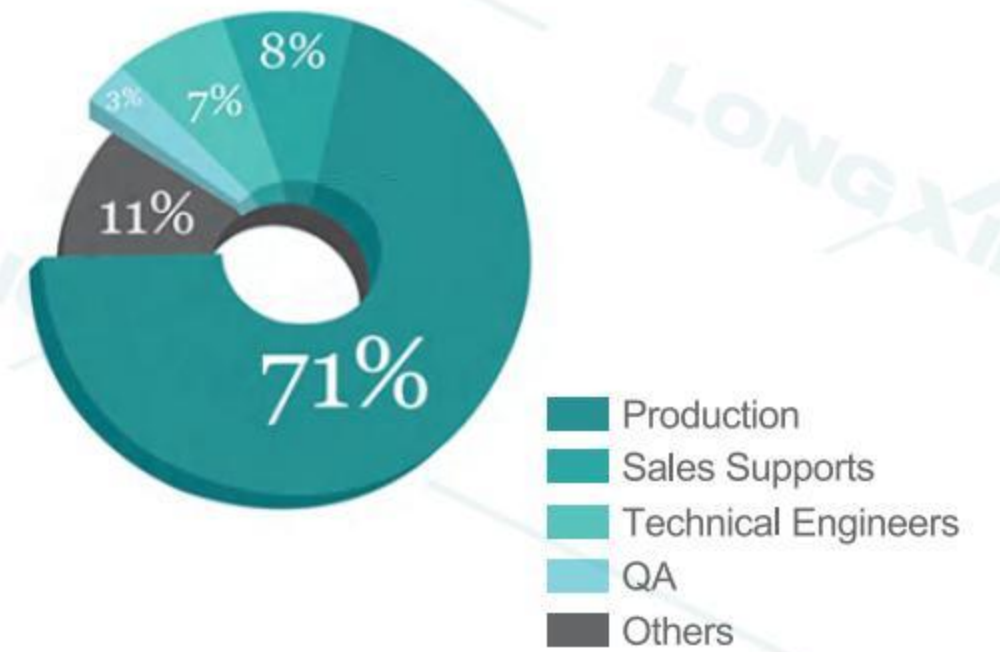
Scan for more details



Products & Services



Staff:800+



Qualification



TL 9000



ISO 14001

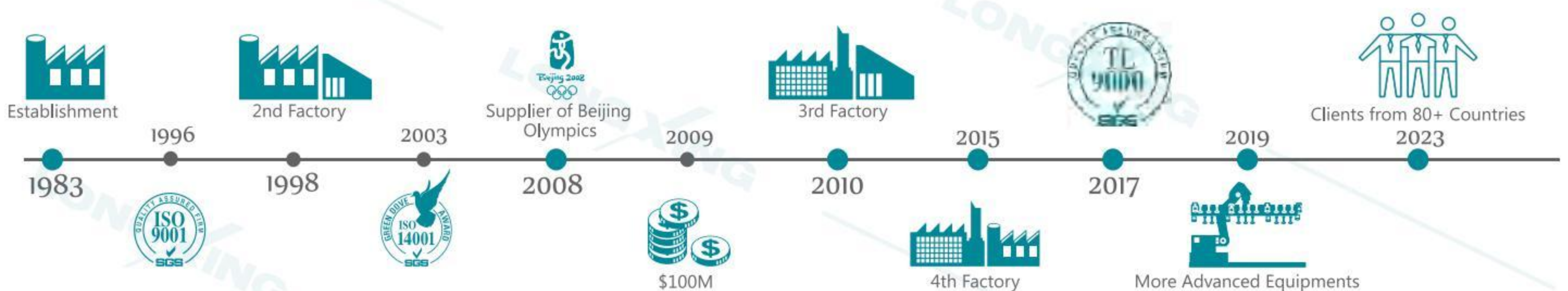


ISO 9001



Quality Guarantee

History of LONGXING



► About us

LongXing has been applying its incomparable know-how in fiber optics and copper to actively develop products that enhance telecommunications for over 40 years.

Our products and solutions extend from the data centre to central offices, curbs and straight to your home. We produce passive and active products, as well as indoor and outdoor products (ex: ODF, network cabinets, distribution boxes, cable tray, systems splice closures, outdoor cabinets, PDUs, micro data centre and optical accessories).

LongXing is an environmental friendly company and we are minimizing the printed documents including marketing brochures. Therefore this brochure does not cover all the products and solutions we provide, for further information please visit us at www.lxtelecom.com, or contact us at info@lxtelecom.com.

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Current Market Coverage

LONGXING ONE-STOP

1 ODFs



2 Patch Panels



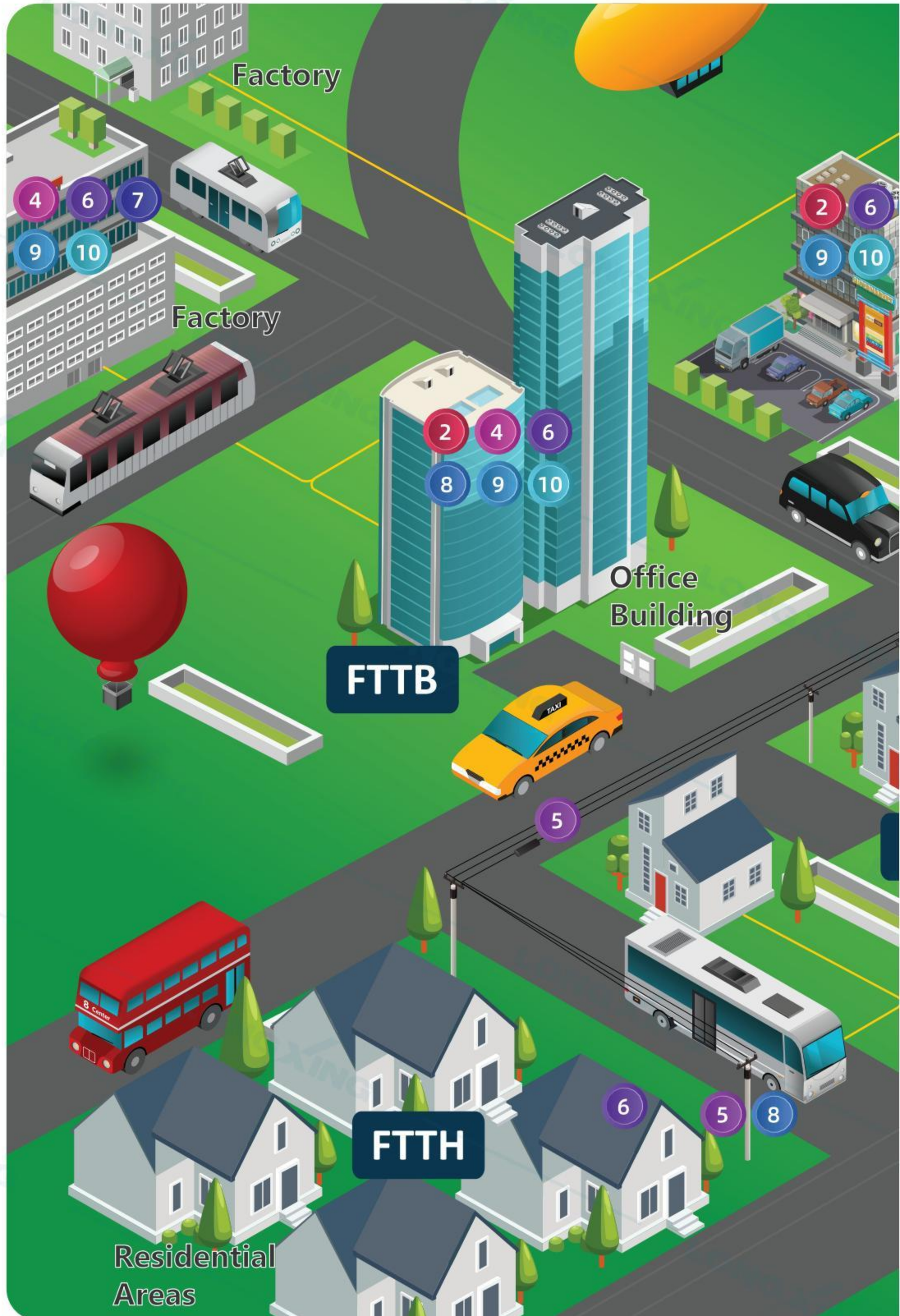
3 Outdoor Cabinets



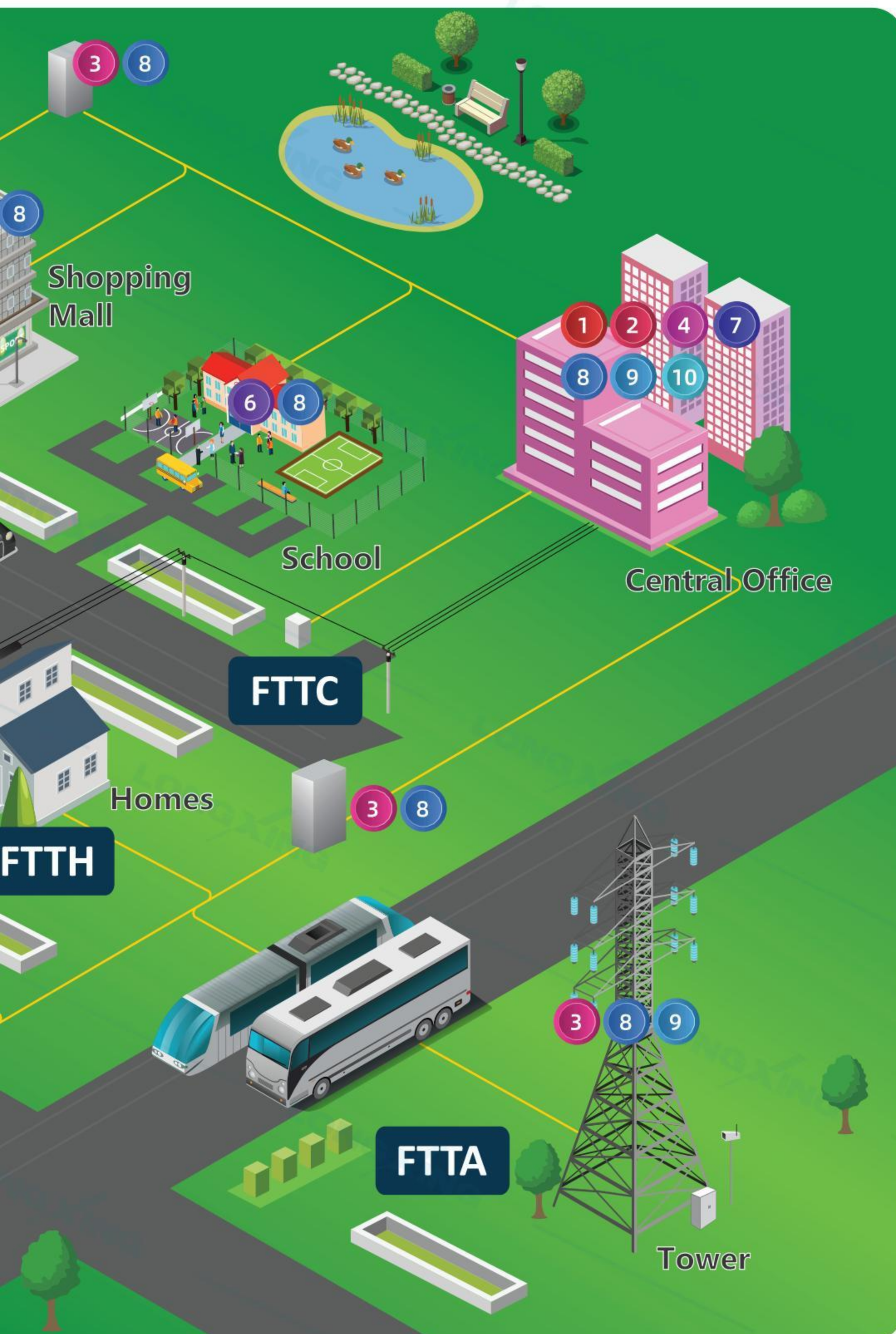
4 Data Centers



5 Splice Closures



TOTAL SOLUTIONS



10 Network Cabinets



9 Power Managements



8 Splitters & WDMS

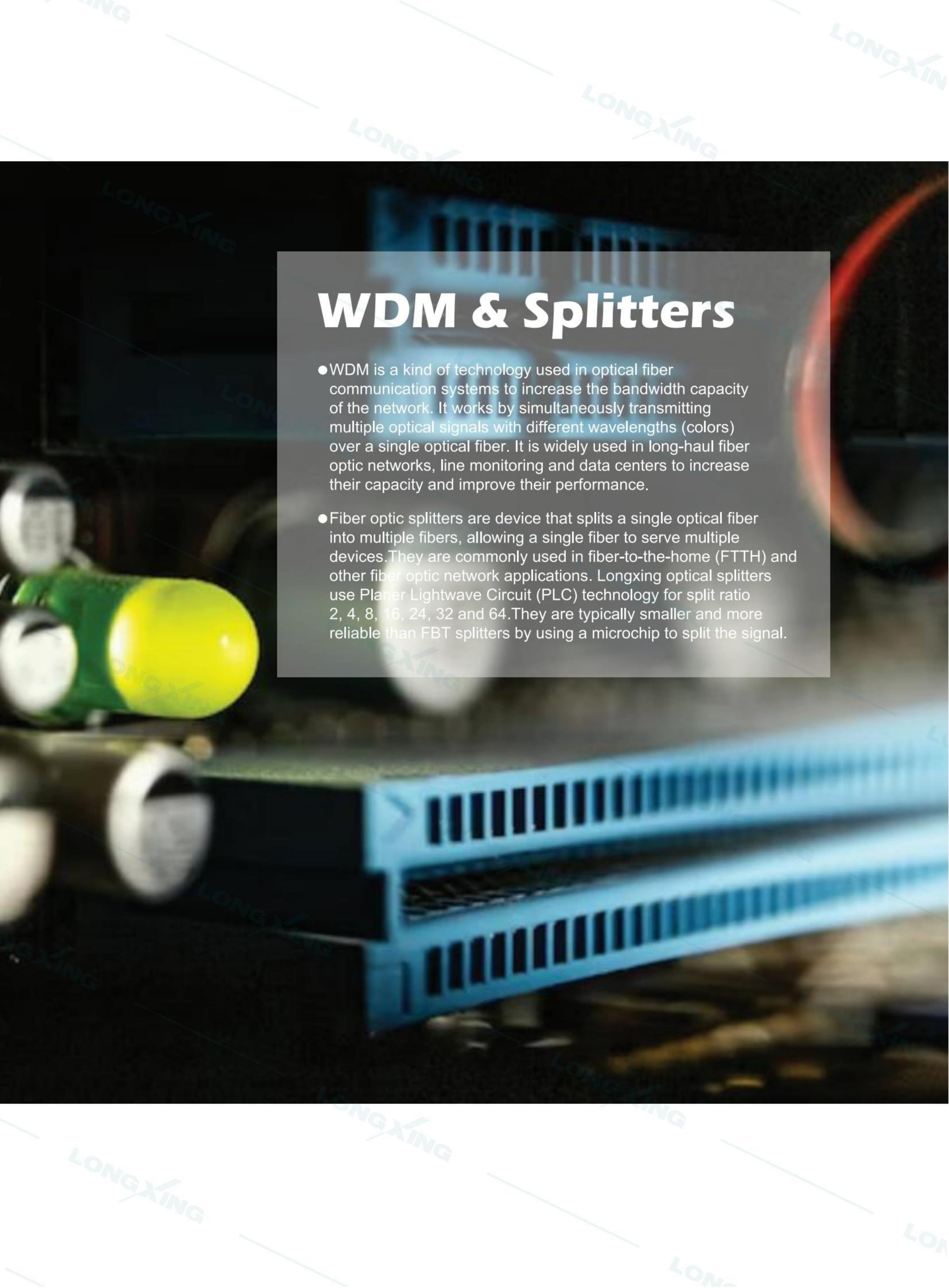


6 Distribution Boxes



7 Cable Trays





WDM & Splitters

- WDM is a kind of technology used in optical fiber communication systems to increase the bandwidth capacity of the network. It works by simultaneously transmitting multiple optical signals with different wavelengths (colors) over a single optical fiber. It is widely used in long-haul fiber optic networks, line monitoring and data centers to increase their capacity and improve their performance.
- Fiber optic splitters are device that splits a single optical fiber into multiple fibers, allowing a single fiber to serve multiple devices. They are commonly used in fiber-to-the-home (FTTH) and other fiber optic network applications. Longxing optical splitters use Planer Lightwave Circuit (PLC) technology for split ratio 2, 4, 8, 16, 24, 32 and 64. They are typically smaller and more reliable than FBT splitters by using a microchip to split the signal.



NEW

Performance Specifications

Parameter		4 Channels		8 Channels		16 Channels	
		Mux	Demux	Mux	Demux	Mux	Demux
Channel Wavelength (nm)		1270~1610 or 1271~1611					
Channel Spacing (nm)		20					
channel Passband (@-0.5dB bandwidth) (nm)		≥13					
Insertion Loss (dB)		≤1.5		≤2.5		Low ≤3.5 Standard ≤4.5	
Isolation (dB)	Adjacent	≥30					
	Non-adjacent	≥40					
Insertion Loss Temperature Sensitivity (dB)		≤0.5					
Wavelength Temperature Shifting (nm/°C)		≤0.002					
Polarization Dependent Loss (dB)		≤0.2					
Polarization Mode Dispersion (ps)		≤0.1					
Directivity (dB)		≥50					
Return Loss (dB)		≥45					
Maximum Power Handling (mW)		300					
Operating Temperature (°C)		-10~+70					
Storage Temperature (°C)		-40~+85					
Package Dimension (mm)		L100 x W80 x H10			L120 x W80 x H18		
		19" 1U Rackmount					

Features

- Low insertion loss
- Wide pass band
- High channel isolation
- High stability and reliability
- Epoxy free on optical path

Above specifications are for devices without connector.
Specifications may change without notice.

06 DWDM & OADM Module



NEW

Performance Specifications

Parameter		DWDM Module						OADM Module			
		4 Channels		8 Channels		16 Channels		4 Channels		8 Channels	
		Mux	Demux	Mux	Demux	Mux	Demux	Mux	Demux	Mux	Demux
Channel Wavelength (nm)		ITU 100GHz Grid						ITU Grid			
Channel Spacing (GHz)		100 / 200						100 / 200			
channel Passband (@-0.5dB bandwidth) (nm)		≥0.22 (100G) / ≥0.5 (200G)						≥0.22 (100G) / ≥0.5 (200G)			
Insertion Loss (dB)		≤1.8		≤3.0		Low≤3.5Standard≤3.5		/			
Channel Ripple (dB)		≤0.5						/			
Isolation (dB)	Adjacent	≥30						/			
	Non-adjacent							/			
Isolation LOSS (dB)	In--Drop@drop	/						2.0		3.2	
	Add--Out@add	/						2.0		3.2	
	In-Out@other	/						2.5		5.0	
Isolation @Add/ Drop Channel(dB)	Adjacent	/						≥30			
	Non-adjacent	/						≥40			
Insertion Loss Temperature Sensitivity (dB)		≤0.5						≤0.5			
Wavelength Temperature Shifting (nm/℃)		≤0.001						≤0.001			
Polarization Dependent Loss (dB)		≤0.2						≤0.2			
Polarization Mode Dispersion (ps)		≤0.1						≤0.1			
Directivity (dB)		≥45						≥45			
Return Loss (dB)		≥45						≥45			
Maximum Power Handling (mW)		300						300			
Operating Temperature (℃)		-10~+70						-10~+70			
Storage Temperature (℃)		-40~+85						-40~+85			
Package Dimension (mm)		L100 x W80 x H10			L120 x W80 x H18			L100 x W80 x H10		L120 x W80 x H18	
		19" 1U Rackmount						19" 1U Rackmount			

Features

- Low insertion loss
- Wide pass band
- High channel isolation
- High stability and reliability
- Epoxy free on optical path
- ITU channel spacing(DWDM OADM Module)

Above specifications are for devices without connector. Specifications may change without notice.



NEW

Performance Specifications

Parameter		1X2 CWDM Device (3 Ports)	100G,200G 1X2 DWDM Device(3 Ports)	
		4 Channels		
Channel Wavelength (nm)		1270~1610 or 1271~1611	ITU Grid	
Channel Spacing		20(nm)	100(GHz)	200(GHz)
channel Passband (@-0.5dB bandwidth) (nm)		≥13	≥0.22	≥0.5
Pass channel Insertion Loss (dB)		≤0.6	≤1.0	≤0.9
Reflection channel Insertion Loss (dB)		≤0.4	≤0.4	≤0.4
Isolation (dB)	Pass channel	≥30	≥30	
	Reflect channel	≥13	≥13	
Insertion Loss Temperature Sensitivity (dB)		≤0.3	≤0.3	
Wavelength Temperature Shifting (nm/°C)		≤0.001	≤0.001	
Polarization Dependent Loss (dB)		≤0.1	≤0.1	
Polarization Mode Dispersion (ps)		≤0.1	≤0.1	
Directivity (dB)		≥50	≥45	
Return Loss (dB)		≥45	≥45	
Maximum Power Handling (mW)		300	300	
Operating Temperature (°C)		-10~+70	-10~+70	
Storage Temperature (°C)		-40~+85	-40~+85	
Package Dimension (mm)	For 250μm,900μm	φ5.5 x L38	φ5.5 x L38	
	For 2.0mm,3.0mm	L90 x W20 x H10	L90 x W20 x H10	

Features

- Low insertion loss
- Wide pass band
- High channel isolation
- High stability and reliability
- Epoxy free on optical path

Above specifications are for devices without connector.
Specifications may change without notice.

08 Mini CWDM



NEW

Performance Specifications

Parameter		Specification				
Channel Number		4	8	8+E1	8+E2	18
Channel Wavelength (nm)		1270~1610 or 1271~1611				
Channel Spacing (nm)		20				
Passband (nm)	channels	±6.5				
	Upgrade port			1310+/-50	1260~1458	
Isolation (dB)	Adjacent	≥30				
	Non-adjacent	≥40				
	Upgrade port	≥15				
Insertion Loss (dB)	channels	1.0	1.5	1.5	1.5	3.0
	Upgrade port			1.2	1.2	
Fiber Type		Corning SMF-28 with 900μm loose tube				
Polarization Dependent Loss (dB)		≤0.2				
Polarization Mode Dispersion (ps)		≤0.2				
Directivity (dB)		≥50				
Return Loss (dB)		≥45				
Maximum Power Handling (mW)		500				
Operating Temperature (°C)		-10~+70				
Storage Temperature (°C)		-40~+85				
Package Dimension (mm)		8+1CH: L44 x W28 x h6.2 or L44 x W25 x H6.2 or L54 x W32 x H7.4 18CH : L50 x W50 x H6				

Features

- Low insertion loss
- Wide pass band
- High channel isolation
- High stability and reliability
- Epoxy free on optical path



Micro Type



Cassette Type



Rack Type



Module Type 1



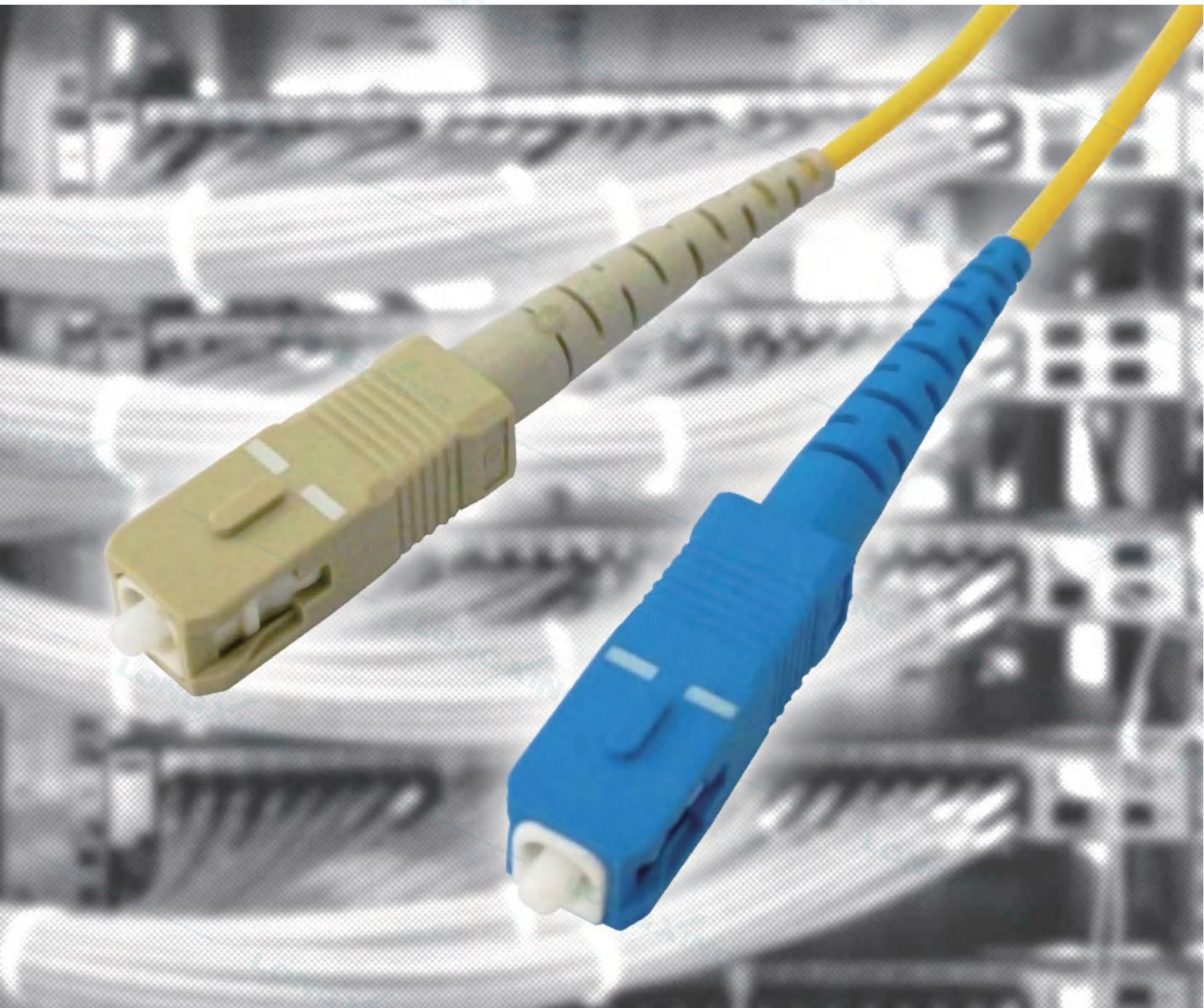
Module Type 2

Technical Specification 1 x N Series

Parameters	1x2	1x4	1x8	1x16	1x24	1x32	1x64	1x64
Operation wavelength (nm)	1260 - 1650							1310 ± 40 1490 ± 10 1550 ± 40
Insertion loss (dB)	≤ 4.3	≤ 7.4	≤ 10.7	≤ 13.9	≤ 15.8	≤ 17.2	≤ 21.5	≤ 20.1
PDL (dB)	≤ 0.2	≤ 0.3	≤ 0.3	≤ 0.3	≤ 0.3	≤ 0.3	≤ 0.5	≤ 0.3
Uniformity (dB)	≤ 0.3	≤ 0.8	≤ 1.0	≤ 1.4	≤ 1.4	≤ 1.6	≤ 2.0	≤ 1.6
Return loss (dB)	≥ 55							
Directivity (dB)	≥ 55							
Working / Storage Temperature (°C)	-40 ~ + 85							

2 x N Series

Parameters	2x4	2x8	2x16	2x32	2x64	2x64
Operation wavelength (nm)	1260 - 1650					1310 ± 40 1490 ± 10 1550 ± 40
Insertion loss (dB)	≤ 7.6	≤ 11.0	≤ 14.8	≤ 17.9	≤ 21.5	≤ 20.1
PDL (dB)	≤ 0.3	≤ 0.3	≤ 0.3	≤ 0.3	≤ 0.5	≤ 0.3
Uniformity (dB)	≤ 1.0	≤ 1.2	≤ 1.5	≤ 1.8	≤ 2.0	≤ 1.8
Return loss (dB)	≥ 55					
Directivity (dB)	≥ 55					
Working / Storage Temperature (°C)	-40 ~ + 85					



Accessories

Accessories refer to a variety of components and tools that are used in the installation, maintenance and repair of fiber optic networks. They contain pigtails, patch cords, fast connectors, adapters and so on.



Patch Cord Catalog Number

T S S Y X FC A SC A 2

Fiber Type		
S	G652D	Single Mode
D	G655	
K	G656	
P	G657A1	
L	G657A2	Multi Mode
B	OM1(62.5/125μm)	
G	OM1(50/125μm)	
Q	OM2(50/125μm)	
W	OM3(50/125μm)	
Y	OM4(50/125μm)	
O	Other *	

Cable Type	
S	Simplex
D	Duplex
F	4 cores
E	8 cores
T	12 cores
O	Other *

Cable Colour	
Y	Yellow
B	Blue
W	White
O	Orange
G	Green
Z	Brown
S	Slate
R	Red
H	Black
P	Purple
F	Rose
A	Aqua

Assembly Length	
1-20	1-20 meters in 0.5 meter increments
20-100	20-100 meters in 5 meter increments
100+	over 100 meters in 10 meter increments

Polish B	
P	PC
U	UPC
A	APC
M	Multimode

Connector B	
FC	FC
SC	SC
LC	LC
ST	ST
E2	E2000
MU	MU
OO	Other *

Polish A	
P	PC
U	UPC
A	APC
M	Multimode

Connector A	
FC	FC
SC	SC
LC	LC
ST	ST
E2	E2000
MU	MU
OO	Other *

Cable Diameter	
X	0.9 mm
Z	2.0 mm
C	3.0 mm
O	Other *

Ordering Example:

TSSYXFCASCA2 Patch Cord, G652D, Simplex, Yellow, 0.9mm, FC/APC-SC/APC, 2 meters

Note: *If the required type of any item is not on the relevant list, please use letter "O" or "OO" as the red cells indicate, and kindly state the required type in the description of PO.

Version: T14

12 Pigtails



Pigtail Catalog Number

W S S Y X FC A 2

Fiber Type		
S	G652D	Single Mode
D	G655	
K	G656	
P	G657A1	
L	G657A2	
B	OM1(62.5/125μm)	Multi Mode
G	OM1(50/125μm)	
Q	OM2(50/125μm)	
W	OM3(50/125μm)	
Y	OM4(50/125μm)	
O	Other *	

Assembly Length	
1-20	1-20 meters in 0.5 meter increments
20-100	20-100 meters in 5 meter increments
100+	over 100 meters in 10 meter increments

Polish	
P	PC
U	UPC
A	APC
M	Multimode

Cable Type	
S	Simplex
D	Duplex
F	4 cores
E	8 cores
T	12 cores
O	Other *

Connector	
FC	FC
SC	SC
LC	LC
ST	ST
E2	E2000
MU	MU
OO	Other *

Cable Colour	
Y	Yellow
B	Blue
W	White
O	Orange
G	Green
Z	Brown
S	Slate
R	Red
H	Black
P	Purple
F	Rose
A	Aqua

Cable Diameter	
X	0.9 mm
Z	2.0 mm
C	3.0 mm
O	Other *

Ordering Example:

W SSYXFCA2 Pigtail, G652D, Simplex, Yellow, 0.9mm, FC/APC, 2 meters

Note: *If the required type of any item is not on the relevant list, please use letter "O" or "OO" as the red cells indicate, and kindly state the required type in the description of PO.

Version: W14



Connectors Catalog Number

FOC - [][][][]

Fiber Core
S=Simplex
D=Duplex

Type
U=UPC
A=APC
M=Multimode

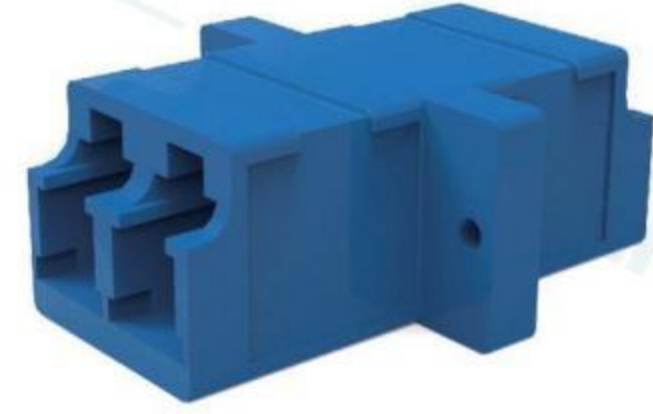
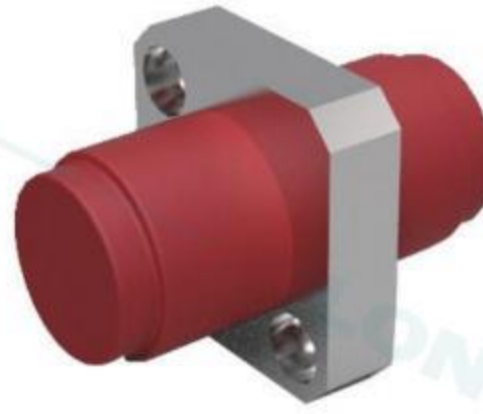
Joint Form
FC = FC
SC = SC
LC = LC
ST = ST
MU= MU
MP= MPO
E2 = E2000
OO= Other*

Ordering Example:

FOC-SMUA Simplex, MU, APC

Note : *If the required type of any item is not on the relevant list, please use "O" or "OO" as the red cells indicate, and kindly state the required type in the description of PO.

14 Adapters



Adapter Catalog Number

FOA - [][][][]

Fiber Core
S=Simplex
D=Duplex

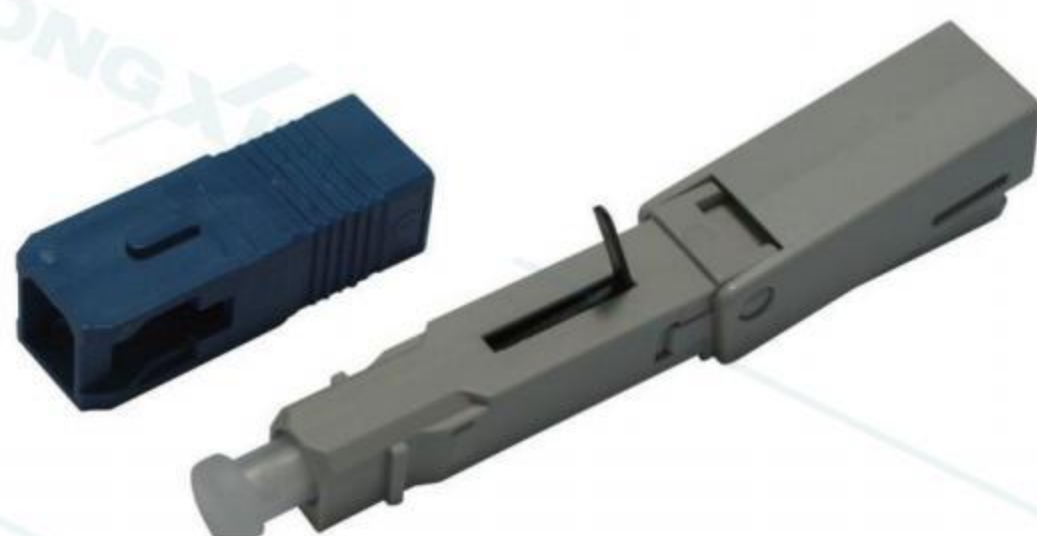
Type
U=UPC
A=APC
M=Multimode

Joint Form
FC = FC
SC = SC
LC = LC
ST = ST
MU= MU
MP= MPO
E2 = E2000
OO= Other*

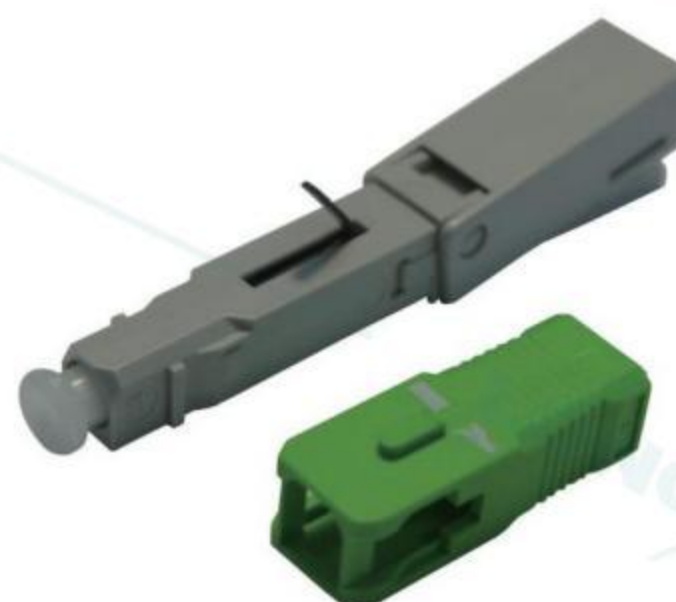
Ordering Example:

FOA-SFCU Simplex, FC, UPC

Note : *If the required type of any item is not on the relevant list, please use "O" or "OO" as the red cells indicate, and kindly state the required type in the description of PO.



SC-UPC



SC-APC

Technical Specifications

Plug Type	SC/UPC	SC/APC
Connector Length	51mm	51mm
Optical Fiber	2mm*3mm Butterfly Type	2mm*3mm Butterfly Type
Insertion Loss	Average $\leq 0.25\text{dB}$, Max $\leq 0.5\text{dB}$	Average $\leq 0.4\text{dB}$, Max $\leq 0.6\text{dB}$
Return Loss	$\geq 50\text{dB}$	$\geq 60\text{dB}$
Thermal Shock	$\leq 0.30\text{dB}$	
Storage / Operating Temperature	$-40 \sim +80$	
Tensile Strength	$\geq 30\text{ N}$	
Average Assembly Time	≤ 2 minutes	
Assembly Repeatability	≥ 5 times	
One-Time Assembly Yield	$\geq 98\%$	



Technical Specifications

Insertion Loss	Average $\leq 0.2\text{dB}$, Max $\leq 0.4\text{dB}$
Return Loss	UPC $\geq 40\text{dB}$, 55dB typical at 25 degrees C + 5degrees APC $\geq 55\text{dB}$, 60dB typical at 25 degrees C +/- 5degrees
One-Time Assembly Yield	$\geq 97\%$
Assembly Repeatability	≥ 5 times
Average Assembly Time	≤ 3 minutes
Life-Time	≥ 30 years
Tensile Strength	$\geq 30\text{N}$ (2.0x3.0 drop cable)
Operation Temperature	$-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$

16 Fast Connectors

Type A, C
Hinged Structure



Type B, BS
Press-Fit Structure



Type E
Extra Strength



Type F*
Splice-On



Model	External Dimensions (L*W)	Housing Length	Cap Length	Fiber Diameter	Insertion Loss		Return Loss		Fiber Retention Force
					APC	UPC	APC	UPC	
A	57mm*9mm	24.9mm	16.5mm	3.0*2.0mm drop cable; 3.0mm; 2.0mm	Avg $\leq 0.25\text{dB}$; Max $\leq 0.4\text{dB}$		Min. > 55dB Typ. > 55dB	Min. > 45dB Typ. > 50dB	< 30N (< 0.2dB with impressed Pressure)
B	55mm*9mm	24.9mm	23.5mm				Min. > 50dB Typ. > 50dB	Min. > 40dB Typ. > 45dB	
C	60mm*9mm	24.9mm	16.5mm				Min. > 55dB Typ. > 55dB	Min. > 45dB Typ. > 50dB	
D	50mm*9mm	20mm	23.5mm				Min. > 55dB Typ. > 55dB	Min. > 45dB Typ. > 50dB	
E	50mm*9mm	20mm	23.5mm				Min. > 55dB Typ. > 55dB	Min. > 45dB Typ. > 50dB	
F*	83mm*9mm Fusion Length 28.5mm*3mm	24.9mm	23.5mm	3.0*2.0mm drop cable; 3.0mm; 2.0mm; 0.9mm	$\leq 0.2\text{dB}$	$\leq 0.2\text{dB}$	> 60dB	> 50dB	60N

Cable Management Spools



T01



T02



T03



T04



T05



T06



T07



T08



T09



T10



T11

Part Number	Height (mm)	Dimensions (mm)			
		Inner Width	Maximum Width	Inner Depth	Maximum Depth
T01	28	80	80	40	50
T02	26	65	65	32	42
T03	15	80	118	54	74
T04	30	80	120	55	75
T05	65	54	54	20	35
T06	45	55	55	20	37
T07	55	70	110	35	57
T08	80	80	80	40	50
T09	29	80	105	38	53
T10	14	78	120	38	60
T11	23	68	68	30	40

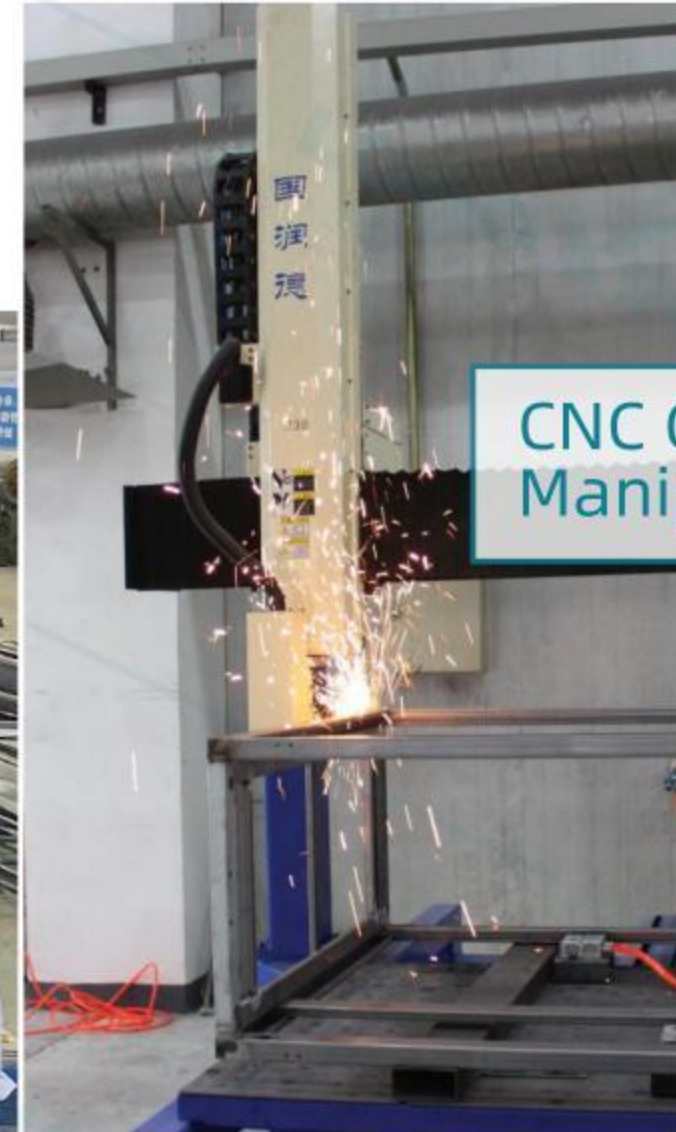
Inside Our Factory

In recent years, LongXing have been investing in advanced manufacturing facilities which can significantly improve both the productivity and quality of a manufacturing process. Manipulators, in particular, are capable of performing repetitive and complex tasks with speed, accuracy, and consistency. This reduces the risk of errors and defects in the manufacturing process, resulting in higher-quality products that meet or exceed customer expectations.

Metal Sheet Workshop



CNC Grinding Manipulator



CNC Punching Manipulator



Fiber Optic Workshop



Assembly Workshop



Laser Cutting



Bending Manipulator



Welding Manipulator



Painting Workshop





LongXing



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